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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/653,613	08/31/2000	Alan Lasneski	004589.P003	4147

7590

08/31/2005

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EXAMINER

SHAPIRO, LEONID

ART UNIT

PAPER NUMBER

2677

DATE MAILED: 08/31/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

SUPPLEMENTAL
Notice of Allowability

Application No.

09/653,613

Examiner

Leonid Shapiro

Applicant(s)

LASNESKI, ALAN

Art Unit

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendments, filed on 05.13.05.
2. ☒ The allowed claim(s) is/are 44-48, renumbered as 1-5.
3. ☒ The drawings filed on 30 December 1899 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

Supplemental Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Claim 44 (Amended) An Apparatus comprising:

a frame conversion unit to convert frames of analog image data to frames of digital image data;

a buffer coupled with the frame conversion to store the frame of digital image data and subsequent converted frames;

a pixel value comparator coupled with the buffer to compare pixel data of the frame of digital image data and pixel data from the subsequent converted frame using horizontal position counter to compare and identify a subsequent converted frame having pixel data that differs from the pixel data of the frame of digital image data by a threshold amount;

a capture switch configured to be set to on when the subsequent converted frame pixel data exceeds the threshold amount and where the capture switch is configured to be set to off when the subsequent converted frame pixel data is below the threshold amount;

a microcontroller configured to capture the subsequent converted frame with pixel data that exceeds the threshold amount for storage to replace the frame of digital image data and display by a display object, and discard frames with pixel data that below the threshold amount.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Anna McCoy on 08.27.05.

Allowable Subject Matter

2. Claims 44-48 are allowed.

3. The following is an examiner's statement of reasons for allowance:

The present invention relates generally to reducing phase noise and distortion in the conversion of an analog video signal to a digital video signal. In particular, the present invention is directed to technology that reduces phase noise and distortion in the digitally converted image by selectively capturing reference frames of the image in accordance with a change threshold and comprising:

a frame conversion unit to convert frames of analog image data to frames of digital image data;

a buffer coupled with the frame conversion to store the frame of digital image data and subsequent converted frames;

a pixel value comparator coupled with the buffer to compare pixel data of the frame of digital image data and pixel data from the subsequent converted frame using horizontal position counter to compare and identify a subsequent converted frame having pixel data that differs from the pixel data of the frame of digital image data by a threshold amount;

a capture switch configured to be set to on when the subsequent converted frame pixel data exceeds the threshold amount and where the capture switch is configured to be set to off when the subsequent converted frame pixel data is below the threshold amount;

a microcontroller configured to capture the subsequent converted frame with pixel data that exceeds the threshold amount for storage to replace the frame of digital image data and display by a display object, and discard frames with pixel data that below the threshold amount, as recited in claim 44. The closest art, Kuzma, Manning and Drake et al. as discussed in the Office Action on 01.12.05 disclose related method, either singularly or in combination fail to anticipate or render the above underlined limitation obvious.

Claims 45-48 depend on claim 44.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Telephone inquire

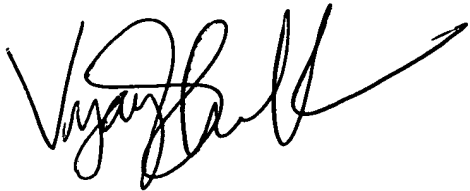
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Shapiro whose telephone number is 571-272-7683. The examiner can normally be reached on 8 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2673

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LS
08.29.05



VIJAY SHANKAR
PRIMARY EXAMINER